

Rajan Singh

Backend Developer

rajan-sc.site

github.com/rajan-sc

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Backend developer specializing in Node.js, Express, and real-time/async systems across SQL and NoSQL stores. Builds REST APIs with JWT auth, queue-backed processing, and payment/cloud integrations.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Socket.IO, BullMQ

Databases: MongoDB, Mongoose, MySQL, Sequelize ORM, PostgreSQL, Prisma ORM, Redis

Frontend (supporting): React, Vite, TailwindCSS, React Query, Chart.js

Cloud & Integrations: AWS S3, Google Gemini, Cashfree, Brevo

Tools: Git, GitHub, Postman, Docker

PROJECTS

SmartCare

Multi-role care-coordination platform for patients, doctors, and caregivers

Node.js, Express, TypeScript, Prisma, PostgreSQL, Socket.IO, BullMQ, Redis, AWS S3, Cashfree

- Engineered real-time clinic queues with Socket.IO over HTTP polling, cutting DB load and showing live wait times.
- Implemented a BullMQ + Redis async job pipeline for medication reminders, with retries resilient to provider downtime.
- Precomputed nightly adherence analytics into a snapshot table for constant-time dashboard reads at scale.
- Designed a normalized multi-role PostgreSQL schema (Prisma) with caregiver access, Cashfree payments, and S3 storage.

smart-care-theta.vercel.app github.com/rajan-sc/Smart-Care

Group Chat

Real-time messaging platform with group chats, direct messages, and custom rooms

Node.js, Express, Socket.IO, MySQL, Sequelize ORM, JWT, AWS S3, Google Gemini

- Built Socket.IO handlers for multi-room and direct messaging with live join/leave broadcasts.
- Secured REST and WebSocket layers with dual JWT auth via HTTP middleware and the socket handshake.
- Automated transactional midnight archival with node-cron; added S3 file sharing and Gemini smart replies.

github.com/rajan-sc/Group-Chat

Expense Tracker

Personal-finance platform with AI categorization and premium features

Node.js, Express, MongoDB, Mongoose, JWT, AWS S3, Google Gemini, Cashfree, Brevo

- Integrated Google Gemini to auto-categorize expenses, with a safe fallback on API failure.
- Denormalized a per-user total in atomic transactions, making the leaderboard a constant-time indexed query.
- Added Cashfree premium membership with server-side verification and S3 export gated behind premium.

github.com/rajan-sc/Expense-Tracker

WORK EXPERIENCE

TryNet Solutions

07/2022 – 08/2022

Training

- Applied software development fundamentals: debugging, backend logic, and database workflows.

EDUCATION

Panipat Institute of Engineering & Technology

08/2019 – 09/2023

Bachelor of Technology, Information Technology

CGPA: 7.76/10